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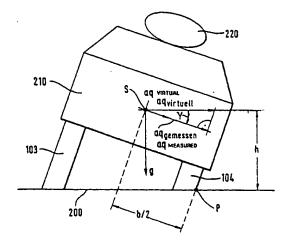
Mit internationalem Recherchenbericht.

Vor Ablauf der für Änderungen der Ansprüche zugelassenen Frist; Veröffentlichung wird wiederholt falls Anderungen eintreffen.

- (54) Title: METHOD AND DEVICE FOR DETECTING THE OVERTURNING HAZARD OF A MOTOR VEHICLE
- (54) Bezeichnung: VERFAHREN UND EINRICHTUNG ZUM ERFASSEN DER GEFAHR DES UMKIPPENS EINES KRAFT-**FAHRZEUGS**

(57) Abstract

The invention relates to a method for detecting the roll angle (γ) of a comering vehicle which comprises at least one axle and at least two wheels (103, 104). Said vehicle is equipped with a transversal acceleration sensor system (115) which senses transversal acceleration (aqmeasured), said acceleration acting upon the center of gravity (S) of the motor vehicle, essentially in the horizontal plane of the vehicle. The aim of the invention is to provide a method which does not require an additional sensor system and which is thus more or less independent of given vehicle characteristics or dimensions. To this end, the component of the transversal acceleration ($aq_{measured}$) acting essentially in the horizontal plane of the vehicle is detected by the transversal acceleration sensor system (115) during comering. In addition, a state variable (aqvirtual) which is correlated to the centrifugal acceleration acting upon the center of gravity (S) is detected, and the roll angle (γ) of the vehicle is calculated from the difference, said difference being weighted with a factor, between the detected component of the transversal acceleration (aqmeasured) and the detected centrifugal acceleration(aqvirtual).



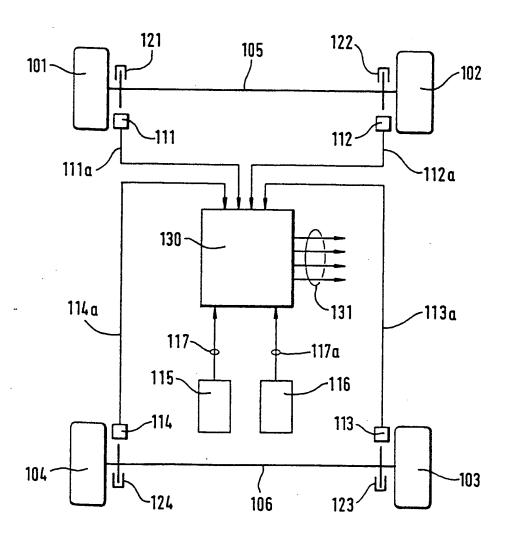
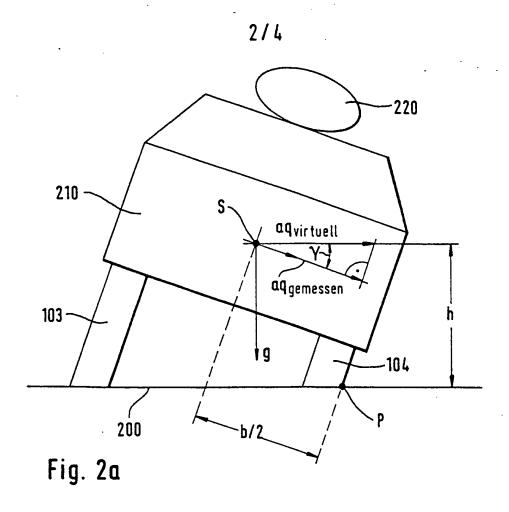


Fig. 1



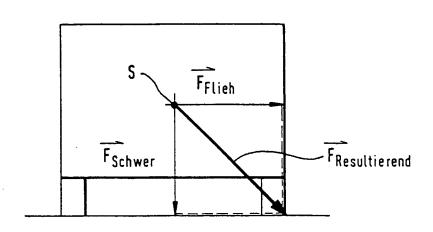


Fig. 2b

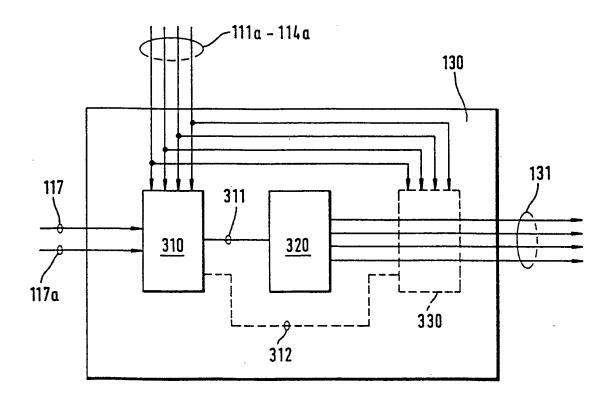
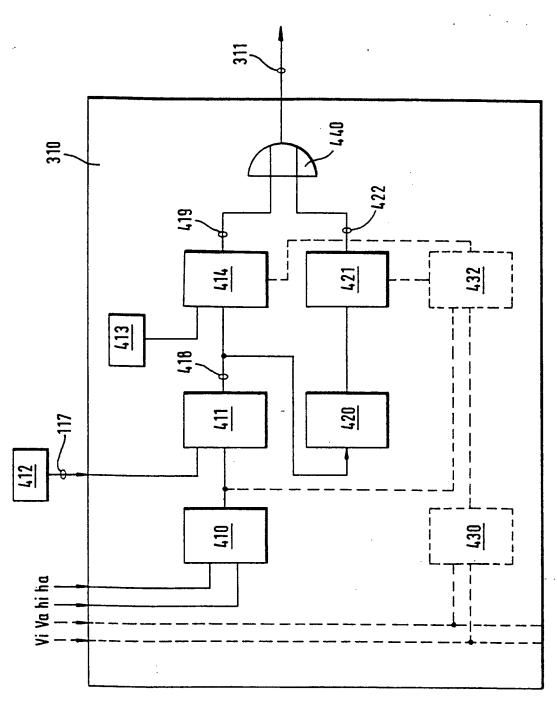


Fig. 3

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